

What is claimed is:

An apparatus for substantially matching the impedance of a resonator filter to a desired impedance at a port, said apparatus comprising:

- 5           a first resonator filter having an input coupled to a signal and further having an output transfer characteristic;
- a second resonator having an output characteristic substantially the same as said first resonator;
- an isolation resonator coupled between said first resonator and said port;
- 10           an isolation resistor coupled between said second resonator and said port;
- wherein said isolation resonator has an impedance characteristic that is complementary to said first resonator filter.

15           The apparatus of Claim 1 wherein said second resonator is identical to said first resonator filter.

            The apparatus of Claim 1 wherein said first resonator is a double-tuned parallel resonator.

20           The apparatus of Claim 1 wherein the second resonator is a truncation of said first resonator filter.

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